

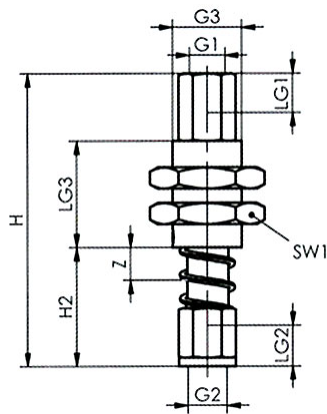
Suitable for all round or oval suction pads in our standard range.

- Applications
- Handling workpieces with different heights (such as curved metal sheets, etc.)
  - Handling easily damaged workpieces, since the plunger ensures soft placement

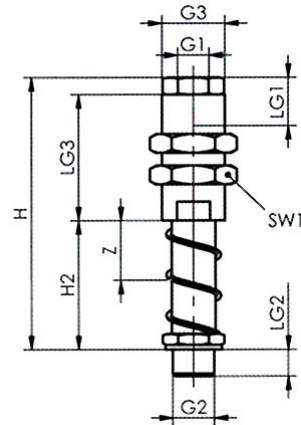
- Type
- Spring plunger consisting of a high-strength steel rod, guide sleeve and lower damping spring
  - Plunger rod with integrated vacuum feed



FS 1418-25



M3 to M5



G 1/8 to G 1/2

## Spring plunger

Art. No.	G1	G2	G3	H	H2	LG1	LG2	LG3	SW1	Z
FS 33-5	M3-IG	M3-IG	M6x0.75-AG	33.5	15.0	3.8	6.0	10.0	10.0	5.0
FS 55-5	M5-IG	M5-IG	G 1/8-AG	41.2	17.0	5.5	6.2	15.0	14.0	5.0
FS 55-10	M5-IG	M5-IG	G 1/8-AG	47.2	23.0	5.5	6.2	15.0	14.0	10.0
FS 55-20	M5-IG	M5-IG	G 1/8-AG	59.2	35.0	5.5	6.2	15.0	14.0	20.0
FS 1818-15	G 1/8-IG	G 1/8-AG	M16x1-AG	73.5	29.5	8.0	6.5	30.0	22.0	15.0
FS 1818-25	G 1/8-IG	G 1/8-AG	M16x1-AG	86.5	42.5	8.0	6.5	30.0	22.0	25.0
FS 1818-50	G 1/8-IG	G 1/8-AG	M16x1-AG	117.5	73.5	8.0	6.5	30.0	22.0	50.0
FS 1418-25	G 1/8-IG	G 1/4-AG	M20x1.5-AG	86.0	40.5	13.0	8.5	40.0	24.0	25.0
FS 1418-50	G 1/8-IG	G 1/4-AG	M20x1.5-AG	115.5	70.0	13.0	8.5	40.0	24.0	50.0
FS 1418-75	G 1/8-IG	G 1/4-AG	M20x1.5-AG	145.0	99.5	13.0	8.5	40.0	24.0	75.0

All dimensions in mm

## Technical data

Art. No.	Spring rate [N/mm]	Spring pretension [N]	Spring force [N]*	Vertical load [N]**	Horizontal load [N]***	Weight [g]	Operating temperature [°C]
FS 33-5	0.6	1.5	3.0	550.0	47.0	9.0	0 – 80.0
FS 55-5	0.5	3.3	4.6	1500.0	132.0	16.0	0 – 80.0
FS 55-10	0.3	2.8	4.4	1500.0	97.0	19.0	0 – 80.0
FS 55-20	0.2	1.8	3.9	1500.0	63.0	25.0	0 – 80.0
FS 1818-15	0.2	3.5	5.2	3700.0	385.0	80.0	0 – 80.0
FS 1818-25	0.1	3.6	5.4	3700.0	283.0	90.0	0 – 80.0
FS 1818-50	0.1	2.9	5.3	3700.0	173.0	110.0	0 – 80.0
FS 1418-25	0.7	6.5	15.4	2400.0	747.0	145.0	0 – 80.0
FS 1418-50	0.5	1.4	12.7	2400.0	466.0	175.0	0 – 80.0
FS 1418-75	0.3	5.4	15.2	2400.0	340.0	190.0	0 – 80.0

\* Based on 50% stroke.

\*\* Maximum static load.

\*\*\* The horizontal load is a maximum static load and affects the inputs and unloading process in the horizontal state.